



Bio-Cascade, Inc
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Bio-hygenics:

Compact and portable treatment plants that use biological oxidation to clean air or water in real time.

CAP™ Clean Air Plants

- **Winner of Technology Merit Award.** The CAP is recognized by the Environmental Business Journal for innovative biological treatment of indoor air quality.
- CAPs employ biocatalysts that convert organic pollution like carbon monoxide, ozone, benzene, and other hydrocarbons to water and carbon dioxide.
- CAPs are stand-alone, portable units, which can be placed anywhere in areas of high pollution.
- Odors and air contaminants, produced by chemical vapors, toxic gases, and mold are eliminated.
- CAPs can be used to surpass OSHA standards for air in the workplace.
- Used in the workplace, CAPs lower health risks, increase comfort and productivity, reduce exposure to liability, and encourage good management practices.
- CAPs also remove cigarette smoke, pet dander, pollen, dust mites, mold, and other allergens.
- CAPs can even oxidize and destroy airborne bacteria and viruses, as well as sudden influxes of chemicals and biological contaminants.
- Turn off your present treatment systems and save thousands with CAPs.

CAP News

Odors Treated at MSW Recycling Facility Neighbors' Complaints Stopped

A municipal solid waste (MSW) recycling facility, situated in a heavily populated area in New York, collects residential trash from the surrounding area and brings it to the Facility, where it is compacted and transferred by truck for ultimate disposal.

When the Facility received odor complaints from area residents, it was eager to resolve the problem in order to retain good neighbor relations. The manager of the Facility is familiar with biological treatment and recognizes that bio-oxidation, combined with careful control of odor generation, is the best technology to eliminate the odors. The Facility considered incineration and carbon as being expensive and not sufficiently effective. It also did not want to add chemicals to mask the odors.

The Facility manager contacted Air & Water Solutions, Inc. to custom-design a biological unit specific to its needs. Two CAP™ Clean Air Plant model CAP-5000 units,

each with a nominal capacity to process 500 lbs of pollution per day, were set up at the Facility. Additional smaller units were set up in the offices to treat odors and control indoor air quality. The CAP-5000s were mounted inside the facility, 8 feet above the floor level in order to be out of the way of workers and trucks. Situated approximately 100 feet apart, the CAPs' radius of influence overlaps.

A reduction in odors was immediately apparent. "Upon entering the facility the following morning to check the odors," said the Manager, "I found that, not only was the facility de-odorized, but also the

bales of MWS were de-odorized." Odor complaints from the surrounding community have been reduced by more than 90%. An added benefit in the facility is that the CAPs also bio-oxidize the exhaust fumes from the trucks as they unload.

In the offices, the owner periodically performs a swipe test in order to observe particulate buildup. Since installation of the CAP-90 in the office, a significant decrease in particle buildup has been observed, as well as a dramatic reduction in odors.

Confirming that bio-oxidation is a feasible technology for the MSW facility, Air & Water Solutions is now custom designing a CWP™ Clean Water Plant system to clean surface water at the site as well as water that is released when compacting the material, which is another major source of odor.

For more information visit us at: 800-983-2420



CAP-5000 at MSW Recycling Facility www.BioCascade.net